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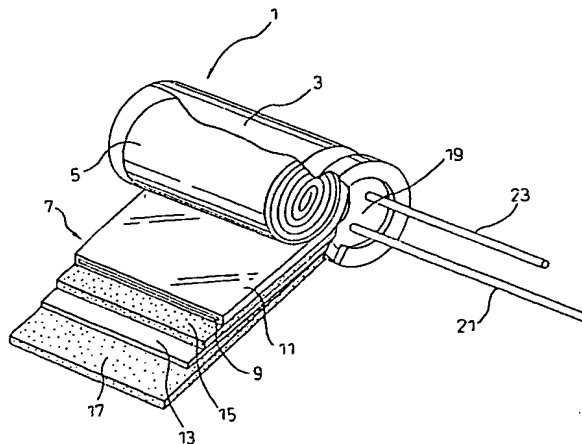
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[続葉有]

(54) Title: ELECTROLYTIC CAPACITOR AND ELECTROLITIC SOLUTION FOR DRIVING ELECTROLYTIC CAPACITOR

(54) 発明の名称: 電解コンデンサおよび電解コンデンサ駆動用電解液



(57) Abstract: An electrolytic capacitor which comprises an unsaturated compound undergoing a hydrogen addition reaction; and an electrolytic solution which comprises a solvent containing 10 to 80 wt % of an organic solvent and 90 to 20 wt % of water and at least one electrolyte selected from the group consisting of a carboxylic acid or a salt thereof and an inorganic acid or a salt thereof and further one or more unsaturated compounds which are water-soluble or soluble in a polar solvent or a protic polar solvent. The electrolytic solution and the electrolytic capacitor allow the absorption of a hydrogen gas generated by the reaction of an aluminum electrode foil with an electrolytic solution, which leads to the improvement of electric characteristics of an electrolytic capacitor and characteristics when it is allowed to stand at a high temperature.

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— 国際調査報告書

(84) 指定国 (広域): ヨーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR).

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(57) 要約:

アルミ電極箔と電解液が反応して発生する水素ガスを吸収するため、不飽和結合鎖を含む化合物を添加して、電解コンデンサの電気特性と高温放置条件下における特性を良好なものにする。水素付加反応を起こす不飽和化合物を内部に含む電解コンデンサと10～80重量%有機溶媒と90～20重量%の水とからなる溶媒と、カルボン酸又はその塩及び無機酸又はその塩からなる群から選択される少なくとも1種類の電解質とを含む電解液に対して、水溶性または極性溶媒及びプロトン系極性溶媒に可溶な不飽和化合物を1種類以上含むように構成される電解液。

## INTERNATIONAL SEARCH REPORT

International Application No.

JP02/13812

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.<sup>7</sup> H01G9/035, H01G9/02, H01G9/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.<sup>7</sup> H01G9/035, H01G9/02, H01G9/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003

Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2000-173872 A (Rubycon Corp.),	1-16
Y	23 June, 2000 (23.06.00),	17-22
A	Claims	23-24
	& CA 2307599 A & WO 00/33338 A1	
	& CN 1275239 T & EP 1063662 A1	
	& HU 4160 A & US 6285543 B1	
Y	JP 1-143315 A (Nippon Chemi-Con Corp.),	17-22
	05 June, 1989 (05.06.89),	
	Claims	
	(Family: none)	

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
03 April, 2003 (03.04.03)Date of mailing of the international search report  
15 April, 2003 (15.04.03)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

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